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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/892,864A

DATE: 01/26/2002  
TIME: 12:44:35

Input Set : A:\209524US0CONT.txt  
Output Set: N:\CRF3\01262002\I892864A.raw

ENTERED

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98	cgt	tcc	aag	aac	gaa	ctg	aag	aac	ggt	cgt	ccg	cgt	tct	ggt	gaa	act	401
99	Arg	Phe	Lys	Asn	Glu	Leu	Lys	Asn	Gly	Arg	Pro	Arg	Ser	Gly	Glu	Thr	
100	90					95				100					105		
102	cgt	gct	gaa	tcc	gaa	ggt	cgt	gtt	gct	aag	gaa	tcc	tcc	gat	gaa	gag	449
103	Arg	Ala	Glu	Phe	Glu	Gly	Arg	Val	Ala	Lys	Glu	Ser	Phe	Asp	Glu	Glu	
104							110			115					120		
106	aaa	ggc	tcc	cag	cgt	gct	cgt	gaa	gtt	gct	tct	gtt	atg	aac	cgt	gct	497
107	Lys	Gly	Phe	Gln	Arg	Ala	Arg	Glu	Val	Ala	Ser	Val	Val	Met	Asn	Arg	Ala
108							125			130					135		
110	cta	gag	aac	gct	cat	gat	gaa	tct	gtc	tac	ctg	gat	aac	ctg	aag	aag	545
111	Leu	Glu	Asn	Ala	His	Asp	Glu	Ser	Ala	Tyr	Leu	Asp	Asn	Leu	Lys	Lys	
112							140			145					150		
114	gaa	ctg	gct	aac	ggt	aac	gat	gct	ctg	cgt	aac	gaa	gat	gct	cgt	tct	593
115	Glu	Leu	Ala	Asn	Gly	Asn	Asp	Ala	Leu	Arg	Asn	Glu	Asp	Ala	Arg	Ser	
116							155			160					165		
118	ccg	tcc	tac	tct	gct	ctg	cgt	aac	act	ccg	tcc	aaa	gaa	cgt	aac		641
119	Pro	Phe	Tyr	Ser	Ala	Leu	Arg	Asn	Thr	Pro	Ser	Phe	Lys	Glu	Arg	Asn	
120	170					175				180					185		
122	gtt	ggt	aac	cat	gat	ccg	tct	cgt	atg	aaa	gct	gtt	atc	tac	tct	aaa	689
123	Gly	Gly	Asn	His	Asp	Pro	Ser	Arg	Met	Lys	Ala	Val	Ile	Tyr	Ser	Lys	
124							190			195					200		
126	cat	tcc	tgg	tct	ggt	cag	gat	aga	tct	tct	tct	gct	gat	aaa	cgt	aaa	737
127	His	Phe	Trp	Ser	Gly	Gln	Asp	Arg	Ser	Ser	Ser	Ala	Asp	Lys	Arg	Lys	
128							205			210					215		
130	tac	ggg	gat	ccg	gat	gca	tcc	cgt	ccg	gct	ccg	ggg	act	ggg	ctg	gta	785
131	Tyr	Gly	Asp	Pro	Asp	Ala	Phe	Arg	Pro	Ala	Pro	Gly	Thr	Gly	Leu	Val	
132							220			225					230		
134	gac	atg	tct	cgt	gat	cgt	aac	atc	ccg	cgt	tct	ccg	act	tct	ccg	ggg	833
135	Asp	Met	Ser	Arg	Asp	Arg	Asn	Ile	Pro	Arg	Ser	Pro	Thr	Ser	Pro	Gly	
136							235			240					245		
138	gaa	ggc	tcc	gtt	aac	tcc	gat	tac	ggg	tgg	tcc	ggg	gct	cag	act	gaa	881
139	Glu	Gly	Phe	Val	Asn	Phe	Asp	Tyr	Gly	Trp	Phe	Gly	Ala	Gln	Thr	Glu	
140	250					255				260					265		
142	gtt	gat	gct	gat	aag	act	gtt	tgg	acc	cat	ggg	aac	cat	tac	cat	gct	929
143	Ala	Asp	Ala	Asp	Lys	Thr	Val	Trp	Thr	His	Gly	Asn	His	Tyr	His	Ala	
144							270			275					280		
146	ccg	aac	ggg	tct	ctg	ggg	gct	atg	cat	gtt	tac	gaa	tct	aaa	tcc	cgt	977
147	Pro	Asn	Gly	Ser	Leu	Gly	Ala	Met	His	Val	Tyr	Glu	Ser	Lys	Phe	Arg	
148							285			290					295		
150	aat	tgg	tct	gaa	ggg	tac	tcc	gac	tcc	gat	cgt	ggg	gct	tac	gtt	atc	1025
151	Asn	Trp	Ser	Glu	Gly	Tyr	Ser	Asp	Phe	Asp	Arg	Gly	Ala	Tyr	Val	Ile	
152							300			305					310		
154	acc	tcc	att	ccg	aaa	tct	tgg	aac	act	gct	ccg	gac	aaa	gtt	aaa	cag	1073
155	Thr	Phe	Ile	Pro	Lys	Ser	Trp	Asn	Thr	Ala	Pro	Asp	Lys	Val	Lys	Gln	
156							315			320					325		
158	gtt	tgg	ccg	taatgaaagc	ttggatctct	aattactgga	cttcacacag										1122
159	Gly	Trp	Pro														
160	330																
162	actaaaatag	acataatctta	tattatgtga	ttttgtgaca	tttccttagat	gtgagggtgga											1182

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164	ggtgatgtat	aaggtagatg.	atgatcctct	acgcggacg	catcggtggc	ggcatcaccg	1242									
166	gcgccacagg	tgcggttgct	ggcgccata	tcgcccacat	caccgatggg	gaagatcggg	1302									
168	ctcgccactt	cgggctcatg	agcgcttgg	tcggcgtggg	tatggtgca	ggccccgtgg	1362									
170	ccgggggact	gttgggcgcc	atctccttgc	atgaccatt	ccttgcggcg	gcggtgctca	1422									
172	acggcctcaa	cctactactg	ggctgcttcc	taatcagga	gtcgcataag	ggagagcgtc	1482									
174	gagagcccg	ctaatcagcg	ggctttttt	tcagctg			1519									
177	<210> SEQ ID NO: 2															
179	<211> LENGTH: 332															
181	<212> TYPE: PRT															
183	<213> ORGANISM: Artificial Sequence															
187	<220> FEATURE:															
189	<223> OTHER INFORMATION: Synthetic Peptide															
191	<400> SEQUENCE: 2															
193	Met	Asp	Ser	Asp	Asp	Arg										
194	1	5			10		15									
197	Met	Pro	Asp	Pro	Tyr	Arg	Pro	Ser	Tyr	Gly	Arg	Ala	Glu	Thr	Val	Val
198		20			25										30	
201	Asn	Asn	Tyr	Ile	Arg	Lys	Trp	Gln	Gln	Val	Tyr	Ser	His	Arg	Asp	Gly
202		35			40									45		
205	Arg	Lys	Gln	Gln	Met	Thr	Glu	Glu	Gln	Arg	Glu	Trp	Leu	Ser	Tyr	Gly
206		50			55									60		
209	Cys	Val	Gly	Val	Thr	Trp	Val	Asn	Ser	Gly	Gln	Tyr	Pro	Thr	Asn	Arg
210		65			70									80		
213	Leu	Ala	Phe	Ala	Ser	Phe	Asp	Glu	Asp	Arg	Phe	Lys	Asn	Glu	Leu	Lys
214			85					90						95		
217	Asn	Gly	Arg	Pro	Arg	Ser	Gly	Glu	Thr	Arg	Ala	Glu	Phe	Glu	Gly	Arg
218		100			105									110		
221	Val	Ala	Lys	Glu	Ser	Phe	Asp	Glu	Glu	Lys	Gly	Phe	Gln	Arg	Ala	Arg
222		115			120									125		
225	Glu	Val	Ala	Ser	Val	Met	Asn	Arg	Ala	Leu	Glu	Asn	Ala	His	Asp	Glu
226		130			135									140		
229	Ser	Ala	Tyr	Leu	Asp	Asn	Leu	Lys	Lys	Glu	Leu	Ala	Asn	Gly	Asn	Asp
230		145			150									155	160	
233	Ala	Leu	Arg	Asn	Glu	Asp	Ala	Arg	Ser	Pro	Phe	Tyr	Ser	Ala	Leu	Arg
234			165					170						175		
237	Asn	Thr	Pro	Ser	Phe	Lys	Glu	Arg	Asn	Gly	Gly	Asn	His	Asp	Pro	Ser
238		180			185									190		
241	Arg	Met	Lys	Ala	Val	Ile	Tyr	Ser	Lys	His	Phe	Trp	Ser	Gly	Gln	Asp
242		195			200									205		
245	Arg	Ser	Ser	Ser	Ala	Asp	Lys	Arg	Lys	Tyr	Gly	Asp	Pro	Asp	Ala	Phe
246		210			215									220		
249	Arg	Pro	Ala	Pro	Gly	Thr	Gly	Leu	Val	Asp	Met	Ser	Arg	Asp	Arg	Asn
250		225			230									235	240	
253	Ile	Pro	Arg	Ser	Pro	Thr	Ser	Pro	Gly	Glu	Gly	Phe	Val	Asn	Phe	Asp
254			245					250						255		
257	Tyr	Gly	Trp	Phe	Gly	Ala	Gln	Thr	Glu	Ala	Asp	Ala	Asp	Lys	Thr	Val
258		260			265									270		
261	Trp	Thr	His	Gly	Asn	His	Tyr	His	Ala	Pro	Asn	Gly	Ser	Leu	Gly	Ala
262		275			280									285		

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265 Met His Val Tyr Glu Ser Lys Phe Arg Asn Trp Ser Glu Gly Tyr Ser  
 266. 290 295 300  
 269 Asp Phe Asp Arg Gly Ala Tyr Val Ile Thr Phe Ile Pro Lys Ser Trp  
 270 305 310 315 320  
 273 Asn Thr Ala Pro Asp Lys Val Lys Gln Gly Trp Pro  
 274 325 330  
 277 <210> SEQ ID NO: 3  
 279 <211> LENGTH: 39  
 281 <212> TYPE: DNA  
 283 <213> ORGANISM: Artificial Sequence  
 287 <220> FEATURE:  
 289 <223> OTHER INFORMATION: Synthetic DNA  
 291 <400> SEQUENCE: 3  
 292 aattcatcgta tttagtaagga gttttaaaat ggattctga 39  
 295 <210> SEQ ID NO: 4  
 297 <211> LENGTH: 41  
 299 <212> TYPE: DNA  
 301 <213> ORGANISM: Artificial Sequence  
 305 <220> FEATURE:  
 307 <223> OTHER INFORMATION: Synthetic DNA  
 309 <400> SEQUENCE: 4  
 310 cgatcgtagt aatccatttt aaacctcctt actaatcgat g 41  
 313 <210> SEQ ID NO: 5  
 315 <211> LENGTH: 41  
 317 <212> TYPE: DNA  
 319 <213> ORGANISM: Artificial Sequence  
 323 <220> FEATURE:  
 325 <223> OTHER INFORMATION: Synthetic DNA  
 327 <400> SEQUENCE: 5  
 328 cgatcgtagt actccaccag ctgaaccact ggatcgatg c 41  
 331 <210> SEQ ID NO: 6  
 333 <211> LENGTH: 41  
 335 <212> TYPE: DNA  
 337 <213> ORGANISM: Artificial Sequence  
 341 <220> FEATURE:  
 343 <223> OTHER INFORMATION: Synthetic DNA  
 345 <400> SEQUENCE: 6  
 346 gatctggcat acgatccagt gttcagctg gtggagtaac a 41  
 349 <210> SEQ ID NO: 7  
 351 <211> LENGTH: 41  
 353 <212> TYPE: DNA  
 355 <213> ORGANISM: Artificial Sequence  
 359 <220> FEATURE:  
 361 <223> OTHER INFORMATION: Synthetic DNA  
 363 <400> SEQUENCE: 7  
 364 cagatccata tcgtccatct tatggtcgtg ctgaaactgt t 41  
 367 <210> SEQ ID NO: 8  
 369 <211> LENGTH: 41  
 371 <212> TYPE: DNA

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373 <213> ORGANISM: Artificial Sequence  
377 <220> FEATURE:  
379 <223> OTHER INFORMATION: Synthetic DNA  
381 <400> SEQUENCE: 8  
382 attaacaaca gtttcagcac gaccataaga tggacgatat g 41  
385 <210> SEQ ID NO: 9  
387 <211> LENGTH: 41  
389 <212> TYPE: DNA  
391 <213> ORGANISM: Artificial Sequence  
395 <220> FEATURE:  
397 <223> OTHER INFORMATION: Synthetic DNA  
399 <400> SEQUENCE: 9  
400 gttataatt atattcgtaa atggcaacaa gtttattctc a 41  
403 <210> SEQ ID NO: 10  
405 <211> LENGTH: 41  
407 <212> TYPE: DNA  
409 <213> ORGANISM: Artificial Sequence  
413 <220> FEATURE:  
415 <223> OTHER INFORMATION: Synthetic DNA  
417 <400> SEQUENCE: 10  
418 tcacgatgag aataaacttg ttgccattta cgaatataat t 41  
421 <210> SEQ ID NO: 11  
423 <211> LENGTH: 41  
425 <212> TYPE: DNA  
427 <213> ORGANISM: Artificial Sequence  
431 <220> FEATURE:  
433 <223> OTHER INFORMATION: Synthetic DNA  
435 <400> SEQUENCE: 11  
436 tcgtgtatggt cgtaaacaac aaatgactga agaacaacgt g 41  
439 <210> SEQ ID NO: 12  
441 <211> LENGTH: 41  
443 <212> TYPE: DNA  
445 <213> ORGANISM: Artificial Sequence  
449 <220> FEATURE:  
451 <223> OTHER INFORMATION: Synthetic DNA  
453 <400> SEQUENCE: 12  
454 gccatttcacg ttgttcttca gtcatttgg tttacgacc a 41  
457 <210> SEQ ID NO: 13  
459 <211> LENGTH: 42  
461 <212> TYPE: DNA  
463 <213> ORGANISM: Artificial Sequence  
467 <220> FEATURE:  
469 <223> OTHER INFORMATION: Synthetic DNA  
471 <400> SEQUENCE: 13  
472 aatggctgtc ttatgggtgc gttgggttta cttgggttaa ca 42  
475 <210> SEQ ID NO: 14  
477 <211> LENGTH: 40  
479 <212> TYPE: DNA  
481 <213> ORGANISM: Artificial Sequence

VERIFICATION SUMMARY

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